

Abstract

A diode, in particular a press-fit power diode for a rectifier in a motor vehicle, is described, including a semiconductor chip which is connected to a head wire and a base via solder layers. A plastic sheathing, which is situated at least in the chip area and includes a plastic sleeve, enables a hard casting compound to be used and establishes a mechanical connection between the base and the head wire and forms a housing together with the base. An undercut B, which extends into the casting compound, and a gap A between the sleeve and the edge of the base achieve an especially compact design. Bevels provided on both sides enable the diode to be pressed into the rectifier from two sides.

(Figure 1)